**Grade 8 FI**

**Science**

**Madame Empey**

**Topics covered:**

**Life science – Cells, Tissues, Organs and Systems**

In previous explorations of living things, students have not encountered the cell as a basic building block and functional unit of life. At this level, these notions are explored in a rigorous fashion to ensure that students understand the cell’s critical importance to all life. These new understandings allow students to study the human organism from a holistic perspective.

**Earth and Space Science-**

Over two-thirds of Earth’s surface is covered by oceans and freshwater features. Because of this, our planet has been nicknamed the “Blue Planet” owing to its appearance from space. A study of Earth’s marine and freshwater systems provides opportunity for students to learn about the relationship between the geomorphology of Earth and the dynamics of oceans and freshwater basins. As students develop these understandings, they should be able to explain how these geological features have developed and their impact on society.

**Physical science- Optics**

Applications using the principles of light have resulted in devices that

Have improved scientific techniques and contributed to the quality of life . In this unit of study, basic concepts that are introduced include the properties of visible light including the reflection and refraction of light. Various reflecting and refracting technologies will also be explored

and investigated.

Physical Science- Fluids

Fluids, including air and water, are essential in most industrial processes. They form the basis of hydraulic and pneumatic devices and machines. Students will explore the properties of fluids, including viscosity and density, and explain them, using the particle theory. They will also have an opportunity to understand the buoyant forces acting on floating, submerged, and sunken objects. As students conduct their investigations, they will recognize the practical applications of the

properties of fluids in the operation of simple machines.

**Evaluation:**

Class mark journals/ classroom daily work

Tests/Quizzes

Projects/ Assignments

Labs